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20001211; CN19990124291 19991221

CPY - SHAN-N

- UYFU-N

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FS - CPI

IC - C07K14/00 ; C07K14/47 ; C12N9/00 ; C12N9/90 ; C12N15/10 ; C12N15/11 ;  
C12N15/12 ; C12N15/52 ; C12N15/63 ; C12N15/64

IN - MAO Y; XIE Y

MC - B04-E02E B04-E03E B04-E05 B04-E08 B04-F0100E B04-G03 B04-L07 B11-C08  
B11-C08E5 B12-K04 B12-K04F B12-M05 B14-A02B1 B14-C03 B14-F02 B14-G03  
B14-H01 B14-L01 B14-L06 B14-S03 D05-C03F D05-H08 D05-H09 D05-H11  
D05-H12A D05-H12E D05-H14 D05-H18M1 - [01] M423 M424 M710 M720 M740 M750 M781 M905 N102 N135 P210 P420 P433  
P434 P520 P631 P633 P831 Q233 Q505; RA2UAN-T RA2UAN-A RA2UAN-D  
RA2UAN-N RA2UAN-P- [02] M423 M424 M430 M710 M740 M750 M782 M905 N102 N135 P210 P420 P433  
P434 P520 P631 P633 Q233; RA012P-T RA012P-Q RA012P-A RA012P-M RA012P-N- [03] M423 M424 M430 M710 M740 M750 M781 M782 M905 N102 N135 P210 P420  
P433 P434 P520 P631 P633 P831 Q233 Q505; RA00NS-T RA00NS-Q RA00NS-A  
RA00NS-D RA00NS-M RA00NS-N- [04] M423 M424 M430 M710 M740 M782 M905 N102 N135 Q233; RA00GT-Q  
RA00GT-M RA00GT-N

- [05] M423 M424 M710 M740 M905 N102 Q233; RA00C8-N

M6 - [06] M905 P210 P420 P433 P434 P520 P631 P633 P831 Q233 Q505 R502 R515  
R521 R611 R612 R613 R614 R627 R632 R633 R639

PA - (SHAN-N) SHANGHAI BIO DOOR GENE TECHNOLOGY LTD

- (UYFU-N) UNIV FUDAN

PN - AU200119841 A 20010703 DW200164 C07K14/47 000pp

- WO0146250 A1 20010628 DW200147 C07K14/47 Chn 034pp

- CN1300820 A 20010627 DW200158 C12N9/00 000pp

PR - CN19990124291 19991221

XA - C2001-133422

XIC - C07K-014/00 ; C07K-014/47 ; C12N-009/00 ; C12N-009/90 ; C12N-015/10 ;  
C12N-015/11 ; C12N-015/12 ; C12N-015/52 ; C12N-015/63 ; C12N-015/64AB - WO200146250 NOVELTY - An isolated polypeptide (I) of triose-phosphate  
isomerase 9 comprising a fully defined 81 amino acid sequence (S1), or

its fragment, analog or derivative. (I) and encoded polynucleotide

(II) are applicable in diagnosis and treatment of malignant tumor,  
hemopathy, HIV infection, immunological diseases and various  
inflammation.- DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the  
following:

- (1) an isolated polynucleotide (II) which is selected from:

- (a) a polynucleotide (IIa) encoding (I), or its fragment, analog or  
derivative;

- (b) a polynucleotide (IIb) complementary to (IIa); or

- (c) a polynucleotide with not less than 70% homology to (IIa) or (IIb);

- (2) a recombinant vector containing an exogenous polynucleotide  
constructed from (II) and a plasmid, virus vector-expressing vector;- (3) a genetically-modified host cell with an exogenous polynucleotide  
which is (IIa) or (IIb), a host cell transformed or transduced with  
the vector or a host transformed or transduced with (II);- (4) a process for producing (I) by culturing the host cells before  
isolating the product;

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- (5) an antibody that can bind with (I) specifically;
- (6) mimics or regulators of (I) activity or expression being compounds that can mimic, promote, antagonize or inhibit triose-phosphate isomerase 9;
- (7) application of the above compounds for regulation (I) in vivo and in vitro activity;
- (8) a method for detecting diseases relating to (I) or disease susceptibility by measuring the expression dose of (I), or determining (I) activity, or detecting (I) expression dose caused by (II) that has abnormal activity due to polynucleotide mutation;
- (9) drug compositions for diseases relating to (I) containing (I), (II), mimics, agonists, antagonists, inhibitors and their preparations in safe amounts with pharmaceutically-acceptable carrier, which can be used as diagnostics as well; and
- (10) (I) and (II), the screened compounds as well as their preparations for treating malignant tumor, hemopathy, HIV infection, immunological diseases and various inflammation.

- ACTIVITY - Cytostatic; anti-HIV; immunomodulatory; antiinflammatory.  
No biodata is provided.

- MECHANISM OF ACTION - None given.

- USE - The polypeptide and encoded polynucleotide are applicable in diagnosis and treatment of malignant tumor, hemopathy, HIV infection, immunological diseases and various inflammation. The polypeptide is useful for screening mimics, agonists, antagonists or inhibitors, or for use in peptide fingerprinting identification. The polynucleotide can also be used as primers for nucleic acid amplification reaction or as probes for hybridization reaction, or in producing gene chips or microarrays (all claimed).

- (Dwg.0/2)

CN - RA2UAN-T RA2UAN-A RA2UAN-D RA2UAN-N RA2UAN-P RA012P-T RA012P-Q  
RA012P-A RA012P-M RA012P-N RA00NS-T RA00NS-Q RA00NS-A RA00NS-D  
RA00NS-M RA00NS-N RA00GT-Q RA00GT-M RA00GT-N RA00C8-N

DN - AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

IW - TRIOSE PHOSPHATE ISOMERASE ENCODE POLYNUCLEOTIDE APPLY DIAGNOSE  
TREAT

MALIGNANT HIV INFECT IMMUNOLOGICAL DISEASE VARIOUS INFLAMMATION  
IKW - TRIOSE PHOSPHATE ISOMERASE ENCODE POLYNUCLEOTIDE APPLY DIAGNOSE

TREAT

MALIGNANT HIV INFECT IMMUNOLOGICAL DISEASE VARIOUS INFLAMMATION

INW - MAO Y; XIE Y

NC - 094

OPD - 1999-12-21

ORD - 2001-06-27

PAW - (SHAN-N) SHANGHAI BIO DOOR GENE TECHNOLOGY LTD

- (UYFU-N) UNIV FUDAN

TI - Triose-phosphate isomerase 9 and encoded polynucleotide, applicable in diagnosis and treatment of malignant tumor, hemopathy, HIV infection, immunological diseases and various inflammation